



# NPR Labs PAD Processor CLI

## Getting Started Guide

### Introduction

The NPR Labs PAD Processor CLI (referred to hereafter as the application, tool, program, or utility) is a command line tool to provide PAD/PSD information for HD Radio channels. It is designed to use TCP or UDP and to be used with Importers running Versions 1.1.2 and 2.0.1 and higher of the iBiquity Importer software. It can also be used on a main program service with Exporters running version 2.3.3 of iBiquity's Exporter software. The PAD Processor CLI is designed for use with other programs or scripts and should not be used as a standalone end user tool. For this, NPR Labs offers PAD Processor CLI's sister tool, the PAD Content Programmer, which provides the same functionality but with a GUI for end user use.

### Prerequisites

To use the utility, you must have the following:

- The Java Runtime Environment Version 1.5 or higher installed
- Java.exe in the system's path.
- Network access to the Importer for SPS or Exciter for MPS

### Operation

The program can be run on the Importer itself or on a separate computer with network access to the Importer. To run it, execute the following command "java.exe -jar pad\_processor\_cli.jar (path to settings file)". The only argument used by the program is a path to the ini file that contains the PAD settings. If no argument is specified, the program looks for the ini in its current directory.

### INI Settings

The defaults\_PAD\_PROCESSOR.ini file contains information to be broadcast as well as connection settings. The following table shows all possible fields. Fields listed with a gray background may be omitted if not being used.

Line	Description
ip=	The IP of the Importer/Exporter
port=	TCP or UDP Port of PAD Service on Importer/Exporter
service=	Either mps or sps (Lower case)
connection=	Either tcp or udp (Lower case)
autostart=	This field is ignored by the CLI tool, but may be left in legacy files.
synchsafe=	ID3 Variable used for some PAD; leave -1 if unsure
TIT2en=	Either 0 or 1; enables Title field when 1

TPE1en=	Either 0 or 1; enables Artist field when 1
TALBen=	Either 0 or 1; enables Album field when 1
TCONen=	Either 0 or 1; enables Genre field when 1
COMMen=	Either 0 or 1; enables COMM fields when 1
COMRen=	Either 0 or 1; enables COMR fields when 1
UFIDen=	Either 0 or 1; enables UFID fields when 1
TIT2val=	Text to display in Title field of PAD
TPE1val=	Text to display in Artist field of PAD
TALBval=	Text to display in Album field of PAD
TCONval=	Text to display in Genre field of PAD
COMMval=	Text to display in short Comment field of PAD
COMMLong=	Text to display in long Comment field of PAD
COMRprice=	Price to display in Commercial field of PAD
COMRvalid=	Date to use in Commercial field of PAD
COMRurl=	URL to display in Commercial field of PAD
COMRrxas=	Integer between 0 and 8; Delivery type for Commercial field
COMRdesc=	Description to display in Commercial field of PAD
COMRname=	Item Name to display in Commercial field of PAD
COMRpicpath=	Path to photo to display in Commercial field of PAD
COMRlogo=	Path to logo to display in Commercial field of PAD
UFIDoi=	Owner Identifier for UFID field of PAD
UFIDid=	Integer ID for UFID field of PAD

For questions on any other fields used, please see iBiquity's PSD reference; document number SY\_IDD\_1028s ([http://www.ibiquity.com/i/SY\\_IDD\\_1028s.pdf](http://www.ibiquity.com/i/SY_IDD_1028s.pdf)).

If you have any questions about this tool, please contact Matt Burrough at [mburrough@npr.org](mailto:mburrough@npr.org) or 202.513.2463. NPR Labs does not guarantee a response to questions.